Sequence listing <110> Bayer Aktiengesellschaft <120> Anti-Kazlauskas lipases <130> LeA 35 991 <160> <170> PatentIn version 3.1 <210> 1 <211> 885 <212> DNA <213> artificial <220> <221> CDS (1)..(885) <222> <223> <400> 1 atg gca cag gtg aag gcc aac ggc att acc ctc gag tat gaa gag cag Met Ala Gln Val Lys Ala Asn Gly Ile Thr Leu Glu Tyr Glu Glu Gln 48 ggc cat cgc cac cat ccg tcc atg ctc ctc att atg ggc ctg ggc Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly 96 cag tta atc gac tgg ccc gag gag ttc atc cgg ggg ctg gct gaa cga Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg 144 ggc ttc cgg gta atc tgt ttc gac aac cgc gac gcg ggg ctt tcg acg Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr 192 aaa ctt gaa ggc gtg aaa aaa ccg aac att gcc cgg gta ttt ctc ctg Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu 240 gcg agc atg ggc cta aag ccc agg gtg cct tac acc ctc gac gac atg Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met 288 gcc ctg gac acc gtg ggg ctg atg gat gcc ctg ggc att gag agc acc Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr 105 110 cac gta gtt ggc gtc tcc atg ggc ggc atg att gcg cag att cta ggg His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly 384 120 gcg aag cac ggg gag cgg gtg aaa tcc ctt acc ctg atg att acc tcc Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser 432 135 tee gge aac eee ege atg eeg geg eee agg eeg eag gtg etg eaa aag Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys 480 155 ttt atg cgg gtg ccc aag agc atg gat aag gaa gag tgg att aaa tac Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr 528

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	aac Asn	ttg Leu	gag Glu	ctt Leu 180	Leu	acc Thr	acc Thr	ato Ile	ggc Gly 185	Ser	ccc Pro	ggg Gly	ttg Leu	gac Asp 190	Arg	gag Glu		576
	aag Lys	ctg Leu	gcc Ala 195	Leu	gac Asp	gtg Val	agg Arg	aag Lys 200	Ser	ata Ile	gag Glu	g cgg L Arg	tgc Cys 205	ctt Leu	tgc Cys	ccc Pro		624
	gaa Glu	ggc Gly 210	acg Thr	cag Gln	cgg Arg	cag Gln	ctg Leu 215	gca Ala	gcc Ala	atc Ile	ctg Leu	cag Gln 220	Ser	ggc Gly	agc Ser	agg Arg		672
	gtg Val 225	aag Lys	ctg Leu	ctc Leu	cgg Arg	cgg Arg 230	atc Ile	gct Ala	gtc Val	ccc Pro	acc Thr 235	Leu	gtc Val	atc Ile	agc Ser	999 Gly 240		720
	gcg Ala	gaa Glu	gat Asp	ccc Pro	ctc Leu 245	ctg Leu	ccg Pro	tac Tyr	cag Gln	tgc Cys 250	ggc Gly	cgg Arg	gac Asp	att Ile	gcc Ala 255	gac Asp		768
	cat His	atc Ile	ccg Pro	gga Gly 260	gcc Ala	cgc Arg	ttc Phe	gag Glu	ctc Leu 265	atc Ile	gag Glu	ggc Gly	atg Met	999 Gly 270	cac His	gac Asp		816
	att Ile	ccc Pro	gag Glu 275	cgg Arg	cac His	atc Ile	ccc Pro	cgg Arg 280	ctg Leu	att Ile	gag Glu	ctc Leu	atc Ile 285	gcc Ala	999 999	cac His		864
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	Gln	Leu	Ile . 35	Asp	Trp	Pro		Glu 40	Phe	Ile	Arg	Gly	Leu 45	Ala	Glu	Arg		
		Phe 2	Arg	Val	Ile		Phe . 55	Asp	Asn	Arg	Asp	Ala 60	Gly	Leu	Ser	Thr		
	Lys 65	Leu (Glu (Gly		Lys : 70	Lys :	Pro .	Asn		Ala 75	Arg	Val :	Phe	Leu	Leu 80		

- Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met 85 90 95
- Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr 100 105 110
- His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly 115 120 125
- Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser 130 135 140
- Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys 145 150 155 160
- Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr 165 170 175
- Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu 180 185 190
- Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro 195 200 . 205
- Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg 210 215 220
- Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly
 225 230 235 240
- Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp 245 250 255
- His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp 260 265 270
- Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His 275 280 285
- Ala Ala Ala Glu Ala 290